

**PATENT APPLICATION**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of

Docket No: Q95891

Lay-Lay CHUA, et al.

Appln. No.: National Stage of PCT/GB2005/000132

Confirmation No.: Not yet assigned

Group Art Unit: Not yet assigned

Filed: July 14, 2006

Examiner: Not yet assigned

For: N-CHANNEL TRANSISTOR

**INFORMATION DISCLOSURE STATEMENT**  
**UNDER 37 C.F.R. §§ 1.97 and 1.98**

**MAIL STOP AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

A copy of each reference listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein is enclosed. Also, a copy of an International Search Report in a counterpart application is submitted herewith.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office

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INFORMATION DISCLOSURE STATEMENT  
U.S. Appl. No.: National Stage of PCT/GB2005/000132

AP20 Rec'd PCT/PTO 14 JUL 2006

Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents (International Search Report for PCT/GB2005/000132 dated May 31, 2005), together with an English-language version (if not already included) of at least that portion of the Communication indicating the degree of relevance found by the foreign patent office.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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23373  
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Date: July 14, 2006

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| Substitute for Form 1449 A & B/PTO   |   |    | Complete if Known    |                        |        |
| <b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><i>(use as many sheets as necessary)</i> |   |    | Application Number   | 286149                 |        |
|  |   |    | Confirmation Number  | Not yet assigned       |        |
|  |   |    | Filing Date          | July 14, 2006          |        |
|  |   |    | First Named Inventor | Lay-Lay CHUA           |        |
|  |   |    | Art Unit             | Not yet assigned 2814  |        |
|  |   |    | Examiner Name        | Not yet assigned BJ    |        |
| Sheet  | 1 | of | 1                    | Attorney Docket Number | Q95891 |

## U.S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Document Number |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document |
|--------------------|-----------------------|-----------------|--------------------------------------|--------------------------------|---|
|                    |                       | Number          | Kind Code <sup>2</sup><br>(if known) |                                |   |
|                    |                       | US              |                                      |                                |   |
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## FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Foreign Patent Document   |                     |                                      | Publication Date<br>MM-DD-YYYY | Name of Patentee or Applicant of Cited Document  | Translation <sup>4</sup> |
|--------------------|-----------------------|---------------------------|---------------------|--------------------------------------|--------------------------------|--|--------------------------|
|                    |                       | Country Code <sup>3</sup> | Number <sup>4</sup> | Kind Code <sup>5</sup><br>(if known) |                                |  |                          |
| /B.J./             |                       | EP                        | 1 306 910           | A1                                   | 05-02-2003                     | Interuniversitair Micro-Elektronica Centrum, Limburg Universiteit Centrum and AGFA-Gevaert |                          |
| /B.J./             |                       | EP                        | 1 306 910           | A1                                   | 05-02-2003                     | Interuniversitair Micro-Elektronica Centrum, AGFA-Gevaert and Limburg Universiteit Centrum |                          |
| /B.J./             |                       | EP                        | 1 102 335           | A2                                   | 05-23-2001                     | Lucent Technologies Inc.   |                          |
|                    |                       |                           |                     |                                      |                                |  |                          |
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## NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published. | Translation <sup>4</sup> |
|--------------------|-----------------------|--|--------------------------|
| /B.J./             |                       | E.J. MEIJER et al., « Solution-processed ambipolar organic field-effect transistors and inverters », Nature Materials, Vol. 2, 21, pages 678-682 (21 September 2003)   |                          |
| /B.J./             |                       | LAY-LAY CHUA et al., « General observation of n-type field-effect behavior in organic semiconductors », Nature, ISSN: 0028-0836, Vol. 434, No. 7030, pages 194-199 (10 March 2005)   |                          |
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| Examiner Signature | /Bilkis Jahan/ | Date Considered | 04/25/2008 |
|--------------------|----------------|-----------------|------------|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kind Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov), MPEP 901.04 or follow the hyperlink from the title of the document to the intranet. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to indicate here if English language translation is considered.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /B.J./